

CURRICULUM VITAE

Ann M. Gronowski, Ph.D.

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Date: November 4, 2003

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Current Position: **Assistant Professor** of Pathology & Immunology and
Obstetrics & Gynecology, Division of Laboratory Medicine,
Washington University, St. Louis, Missouri
Assistant Medical Director, Clinical Chemistry and Serology,
Barnes-Jewish Hospital, St. Louis, MO

Education:

[---] B.S., Animal Science, University of Illinois, Urbana, IL
[---] M.S., Ruminant Nutrition, Iowa State University, Ames, IA
[---] Ph.D., Endocrinology and Reproductive Physiology, University of Wisconsin,
Madison, WI

Academic Positions/Employment:

[-----]	Postdoctoral Research Fellow in Endocrinology and Metabolism, Washington University School of Medicine, St. Louis, Missouri. with [-----]. Investigation of growth hormone signaling pathway.
[-----]	Postdoctoral Trainee in Clinical Chemistry and Laboratory Medicine, Washington University School of Medicine, St. Louis, Missouri. with [-----]
[-----]	Postdoctoral Research Fellow in Department of Pathology, Washington University School of Medicine, St. Louis, Missouri. With [-----] Investigation of viral proteins involved in interferon signaling.
1996-1998	Instructor in Pathology, Division of Laboratory Medicine, Washington University School of Medicine, St. Louis, Missouri
1998-present	Assistant Professor of Pathology and Immunology, Division of Laboratory Medicine, Washington University School of Medicine, St. Louis, Missouri
1998-2003	Assistant Medical Director, Clinical Chemistry, Barnes-Jewish Hospital, St. Louis, Missouri
1999-2003	Assistant Medical Director, Clinical Serology Laboratory, St. Louis Children's Hospital, St. Louis, Missouri
2001-present	Assistant Professor of Obstetrics and Gynecology, Washington University School of Medicine, St. Louis, Missouri
2003-present	Co-Director, Postdoctoral Training Program in Clinical Chemistry (ComACC Approved Program)
2003-present	Associate Medical Director, Clinical Chemistry and Serology Laboratories, Barnes-Jewish Hospital, St. Louis, Missouri

Medical Licensure and Board Certification:

[-----]	American Board of Clinical Chemistry
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Honors and Awards:

1992	National Research Service Award
[-----]	Chief Fellow in Clinical Chemistry, Washington University School of Medicine
1996	AACC, Young Investigator Award

Editorial Responsibilities:

2000-present	Clinica Chimica Acta
2003-present	Journal of the International Federation of Clinical Chemistry

Professional Societies and Organizations

1994-	American Association for Clinical Chemistry National Membership Committee, 1995-1999 National Membership Committee, Chair, 1998-1999 Midwest Section, Financial Advisory Committee, 1996-1998 Midwest Section, Financial Advisory Committee, Chair, 1997-98 Midwest Section, Chair-Elect, 1998 Midwest Section, Chair, 1999 Midwest Section, Nominating Committee, 2000 National Awards Committee, 1998- National Awards Committee, Chair, 1999- 2000 Annual Meeting Organizing Committee, 1999-2000 Meetings Taskforce 1999-2000 National Nominating Committee, 2000 National Nominating Committee, Chair, 2001 2005 Annual Meeting Organizing Committee, Vice Chair 2001-2005 Board of Directors, 2003-2005 Annual Meeting Taskforce, 2003-2004
1996-	Washington University Academic Women's Network Pre-Clinical Counselor 1999-2001
1997-	Endocrine Society
1998-	Academy of Clinical Laboratory Physicians and Scientists Program and Finance Committee, 2003-
1998-	American Board of Clinical Chemistry Clinical Chemistry Exam Subcommittee, Member, 1998-2001 Clinical Chemistry Exam Subcommittee, Co-Chair, 2001-2002 Molecular Pathology Exam Committee, Member, 1998-2001 Vice-President and Chair, Examinations Committee, 2002- President, 2003-2004

- 2000- National Academy of Clinical Biochemistry
Long Range Planning Committee, 2001-
Laboratory Medicine Practice Guidelines 2004 Committee on "Evidence
Based Practice for Point of Care Testing"
Chair, "Reproductive Testing" subcommittee, 2002-
- 2000- International Federation of Clinical Chemistry and Laboratory Medicine
Awards Committee, 2000-2002
- 2003- Commission on Accreditation in Clinical Chemistry
Secretary/Treasurer, 2003-

Major Invited Professorships and Lectures:

1. Visiting Professor, Mayo Clinic, Rochester, MN, December 1998, "Stimulation of interferon synthesis by a baculovirus envelope glycoprotein."
2. Edutrak on Molecular Endocrinology for the Clinical Laboratorian, "Reproductive Endocrinology: Molecular defects that interfere with normal fertility." American Association for Clinical Chemistry National Meeting. San Francisco, CA, July 2000.
3. Pacific Northwest Section AACC. Portland, OR, February 2002.
"Biochemical Markers of Preterm Delivery."
4. Visiting Professor, University of Hawaii at Manoa, Honolulu, HI, February 2003.
"Biochemical markers of preterm delivery: fetal fibronectin and cytokines"
The Queens Medical Center
"Laboratory testing in infertility treatment and reproductive evaluations."
Kaiser Permanente
"Laboratory assessment of thyroid disease in pregnancy"
St. Francis Medical Center
"Biochemical markers of fetal lung maturity"
Kaiser Permanente

Bibliography:

Peer Reviewed Manuscripts:

1. Hannon K, **Gronowski AM**, Trenkle A: Relationship of liver and skeletal muscle IGF-1 mRNA to plasma GH profile, production of IGF-1 by liver, plasma IGF-1 concentrations, and growth rates of cattle. *Proc Soc Exp Biol Med* 1991;196:155-163
2. **Gronowski AM**, Bertics PJ: Evidence for the potentiation of EGF receptor tyrosine kinase activity by association with the detergent-insoluble cellular cytoskeleton: analysis of intact and carboxy-terminally truncated receptors. *Endocrinology* 1993;133:2838-2846

3. **Gronowski AM**, Rotwein P: Rapid changes in nuclear protein tyrosine phosphorylation after growth hormone treatment *in vivo*. *J Biol Chem* 1994;269:7874-7878
4. Thomas MJ, **Gronowski AM**, Berry SA, Bergad PL, Rotwein P: Growth hormone rapidly activates rat serine protease inhibitor 2.1 gene transcription and induces a DNA-binding activity distinct from Stats 1, 3, and 4. *Mol Cell Biol* 1995;15:12-18
5. **Gronowski AM**, Zhong Z, Wen Z, Thomas MJ, Darnell J, Jr., Rotwein P: *In vivo* growth hormone treatment rapidly stimulates the tyrosine phosphorylation and activation of Stat3. *Mol Endo* 1995;9:171-177
6. **Gronowski AM**, Bertics PJ: Modulation of epidermal growth factor receptor interaction with the detergent-insoluble cytoskeleton and its effects on receptor tyrosine kinase activity. *Endocrinology* 1995;136:2198-2205
7. **Gronowski AM**, Wong ECC, Wilhite T, Martin D, Smith C, Parvin CA, Landt M: Evaluation of the varelisa GAD II antibody enzyme immunoassay. *Clin Chem* 1995;41:1532-1534
8. **Gronowski AM**, Rotwein P: Rapid changes in gene expression after *in vivo* growth hormone treatment. *Endocrinology* 1995;136:4741-4748
9. **Gronowski AM**, LeStunff C, Rotwein P: Acute nuclear actions of growth hormone (GH): Cycloheximide inhibits inducible activator protein-1 activity, but does not block GH-regulated signal transducer and activator of transcription activation or gene expression. *Endocrinology* 1996;137:55-64
10. LeStunff C, **Gronowski AM**, Rotwein P: Contrasting acute *in vivo* nuclear actions of growth hormone and prolactin. *Mol and Cellular Endocrinology* 1996;121:109-117
11. Parvin CA, **Gronowski AM**: Effect of analytical run length on quality-control (QC) performance and the QC planning process. *Clin Chem* 1997;43:2149-2154
12. Mast AE, Blinder MA, **Gronowski AM**, Chumley C, Scott M: Clinical utility of the soluble transferrin receptor and comparison with serum ferritin in several populations. *Clin Chem* 1998;44:45-51
13. Manzella S, **Gronowski A**, Ladenson J, Scott MG. Limited linear range of the Abbott AxSym serum and erythrocyte folate methods. *Clin Chem (Letter)* 1999;45:582-583

14. Landau-Levine M, Way BA, Clutter WE, Scott MG, **Gronowski AM**: Antibody interference with a heterogeneous immunoassay for TSH. *Clin Chim Acta* 1999;281:177-180
15. **Gronowski AM**, Hilbert DM, Sheehan KCF, Garotta G, Schreiber RD: Baculovirus stimulates antiviral effects in mammalian cells. *J Virology* 1999;73:9944-9951
16. **Gronowski AM**, Copper S, Baorto D, Murray PR. Reproducibility problems with the Abbott Laboratories LCx assay for *Chlamydia trachomatis* and *Neisseria gonorrhoeae*. *J Clin Microbiology* 2000;38:2416-2418
17. Fantz CR, Powell C, Karon B, Parvin CA, Hankins K, Dayal M, Sadovsky Y, Johari V, Apple FS, **Gronowski AM**. Assessment of the diagnostic efficiency of the TDx-FLM II to predict fetal lung maturity. *Clin Chem* 2002;48:761-765
18. Fung MK, Mordarski KT, Bader SA, **Gronowski AM**. Evaluation of the Wampole Laboratories ELISA-based assay for Epstein-Barr virus Serology. *Clin Chim Acta* 2002;319:43-48
19. Carayannopoulos MO, Grenache DG, **Gronowski AM**. Method evaluation for total β -hCG using urine and the Abbott AxSym®. *Clin Chem* 2002;48:1796-1797
20. Luzzi V, Hankins K, **Gronowski AM**. The accuracy of the rapid fFN TLi™ system in predicting preterm delivery. *Clin Chem* 2003;49:501-502
21. Dutton CJ, Parvin CA, **Gronowski AM**. Measurement of glycated hemoglobin percentages for use in the diagnosis and monitoring of diabetes mellitus in nonhuman primates. *Am J Vet Research* 2003;64:
22. Luzzi VI, Scott MG, **Gronowski AM**. Negative thyrotropin assay interference associated with an IgGK paraprotein. Letter to Editor. *Clin Chem* 2003;49(4):709-710
23. Mitchell DR, Parvin CA, **Gronowski AM**. Rules based detection of discrepancies between TSH and free T₄ results. *Clin Chim Acta* 2003;332:89-94
24. Grenache DG, Parvin CA, **Gronowski AM**. Preanalytical factors that influence the Abbott TDx FLM assay. *Clin Chem* 2003;49:935-939
25. Carriappa R, Parvin CA, **Gronowski AM**. Bilirubin in amniotic fluid does not interfere with the Abbott TDx FLMI assay. *Clin Chem* 2003;49:986-987
26. Szallasi A, **Gronowski AM**, Eby CS. Lamellar body count in amniotic fluid: a comparative study using four different hematology analyzers. *Clin Chem* 2003;49:994-997

27. Halldorsdottir A, Carayannopoulos MO, Scrivner M, **Gronowski AM**. Method evaluation for total beta-hCG using urine and the ADVIA Centaur. Letter to Editor. *Clin Chem* 2003;49:1421-1422
28. Singh PK, Parvin CA, **Gronowski AM**. Establishment of reference intervals for markers of fetal thyroid status in amniotic fluid. *J Clin Endocrinol Metab* 2003;88:4175-4179
29. [-----]; In Press

Review Articles and Book Chapters:

1. Rotwein P, **Gronowski AM**, Thomas MJ: Rapid nuclear actions of growth hormone. *Hormone Research* 1994;42:170-175
2. Rotwein P, Thomas MJ, **Gronowski AM**, Bichell DP, Kikuchi K: "The somatomedin hypothesis revisited: Early events in growth hormone action" In *The Insulin-Like Growth Factors and their Regulatory Proteins*. Eds., Baxter RC, Gluckman PD and Rosenfeld RG. Elsevier Science, Amsterdam, 1994: pp. 13-21
3. **Gronowski AM**, Landau-Levine M: "Reproductive Endocrine Function." In *Tietz Textbook of Clin Chem*, 3rd Edition. Eds., Burtis C, and Ashwood ER. W.B. Saunders, Philadelphia, 1998:pp1601-1641
4. Fantz C, Dagogo-Jack S, Ladenson JH, **Gronowski AM**: Thyroid function during pregnancy. (Washington University Case Conference) *Clin Chem* 1999;45:2250-2258
5. **Gronowski AM**, Landau-Levine M: "Reproductive Endocrine Function." In *Tietz Fundamentals of Clin Chem*, 5th Edition, Eds. Burtis C and Ashwood ER. Mosby, St. Louis, 2000:pp 876-897
6. **Gronowski AM**: "Pharmacologic Agents Used to Treat Infertility." In *Therapeutic Drug Monitoring and Toxicology*, 2000;22:145-154
7. **Gronowski A**: Challenges at the clinical interface: Case Histories for Clinical Biochemists. Book Review. *Clinica Chimica Acta* 2002;317:241-242
8. Fantz CR, **Gronowski AM**: "Pregnancy and Hyperthyroidism." In *Thyroid Eye Disease*, Eds Dutton J and Haik BG. Marcel Dekker, Inc., New York, 2002: pp 143-153

9. Grenache DG, **Gronowski AM**: "Reproductive Testing: Ovulation and Pregnancy." In Point of Care Testing: Performance Improvement and Evidence Based Outcomes, Ed. Nichols JH. Marcel Dekker, Inc., New York, 2003: pp. 455-476
10. Grenache DG, **Gronowski AM**: "Fetal Fibronectin." In Point of Care Testing: Performance Improvement and Evidence Based Outcomes, Ed. Nichols JH. Marcel Dekker, Inc., New York, 2003: pp. 477-489
11. [-----]
[-----] (In preparation)
12. [-----]
[-----] (In preparation)
13. [-----]
[-----] (In preparation)

Books:

1. [-----] in preparation).

Presentations and posters:

1. **Gronowski A**, Trenkle A: The effect of gender and castration of the male on the somatotrophic axis of cattle. American Dairy Science Association and American Society of Animal Science Combined annual meeting. *J Anim Sci* 1989;67:227
2. **Gronowski AM**, Ax RL: Potential uses for GnRH in beef cattle. Proc. Western Canada Veterinary Meetings, British Columbia, Alberta, and Saskatchewan. Sponsored by Ayerst Laboratories, 1989
3. Hannon K, **Gronowski AM**, Trenkle A: Relationship of liver and skeletal muscle IGF-1 mRNA to growth rates, plasma GH profiles and plasma IGF-1 concentrations in cattle with different growth potentials. American Society of Animal Science Midwest Sectional Meetings. *J Anim Sci* 1990;68:86
4. **Gronowski AM**, Lin M-L, Bertics PJ: Cytoskeletal interaction and tyrosine kinase activity of intact and C-terminally truncated EGF receptors. The American Society for Cell Biology. *J Cell Biol* 1990;111:96a
5. **Gronowski AM**, Bertics PJ: Intact and truncated EGF receptors (EGFR) exhibit different tyrosine kinase activity in detergent-soluble and -insoluble (cytoskeletal) cell fractions. Federation of American Societies for Experimental Biology. *FASEB* 1992;6:A1353

6. **Gronowski AM**, Walton K, Eveland B, Scott MG: Evaluation of immunoassays for LH, FSH and prolactin on the Syva Vista analyzer. American Association for Clin Chem. *Clin Chem* 1994;40:CP779
7. **Gronowski AM**, Thomas MF, Rotwein P: Early nuclear events following *in vivo* growth hormone treatment. The Endocrine Society 1994;A1275
8. **Gronowski AM**, Parvin CA: The effect of the number of QC's evaluated and the length of time between evaluations on quality control performance. *Clin Chem* 1995;41:CP795
9. Mast AE, Blinder MA, **Gronowski A**, Chumley C, Scott MG: Clinical utility of the serum transferrin receptor level in the evaluation of iron deficiency anemia. 1995 ASH Annual Meeting, Seattle, WA
10. Stickle DF, **Gronowski AM**, Olsen GA, Fellows PA, Avery MB, Studts DJ, Pirruccello SJ: Decreased signal intensity of Sure-Vue™ serum/urine qualitative hCG test at high [hCG]. *Clin Chem* 2000;46:A3
11. Fung MK, Mordarski KT, Bader SA, Storch G, **Gronowski AM**: A comparison of the Wampole (ELISA-based) and Gull/Meridian (ELISA and IFA-based) assays for EBV serology. *Clin Chem* 2000;46:A54
12. Fantz CR, Powell C, Karon B, Dayal M, Sadovsky Y, Johari V, Apple F, **Gronowski AM**: Assessing the diagnostic efficiency of TDx-FLM II to predict fetal lung maturity. *Clin Chem* 2000;46:A63
13. Singh PK, Koenig JW, Moore JL, **Gronowski AM**. A case of fetal goiter and establishment of reference intervals for thyroid studies in amniotic fluid. 2002 Annual ACLPS Meeting, New York, NY June 2002
14. Luzzi V, Hankins K, **Gronowski AM**. Predictive value of fetal fibronectin as a biochemical marker of preterm delivery using the rapid fFN TLi™ System. 2002 Annual AACC Meeting, Orlando, FL, July 2002
15. Grenache DG, Parvin CA, **Gronowski AM**. The effects of pre-analytical processing errors on fetal lung maturity results as determined by the TDx® FLM II assay. 2002 Annual AACC Meeting, Orlando, FL, July 2002
16. Carayannopoulos MO, Grenache DG, Koenig JW, **Gronowski AM**. A method evaluation for total β -hCG using urine and the Abbott AxSym®. 2002 Annual AACC Meeting, Orlando, FL, July 2002

17. Grenache DG, Hankins K, **Gronowski AM**. Evaluation of cervicovaginal cytokines as markers of preterm delivery. 2003 Annual AACC Meeting, Philadelphia, PA, July 2003
18. Luzzi VI, Hankins K, **Gronowski AM**. Comparison of lamellar body counts with the TDx FLMI assay to assess risk for respiratory distress syndrome. 2003 Annual AACC Meeting, Philadelphia, PA, July 2003
19. Carayannopoulos MO, Moore J, Glover D, **Gronowski AM**. Preliminary performance evaluation of the Bayer Clinitek Status® for qualitative analysis of urine hCG. 2003 Annual AACC Meeting, Philadelphia, PA, July 2003
20. Mitchell DR, Parvin CA, **Gronowski AM**. Rules-based detection of discrepancies between TSH and free T4 results. 2003 Annual ACLPS meeting, Tucson, AZ, June 2003.